

- 1 -
piece 1, NC_000913, gadX_gadA+, config: linear, direction: +, begin: 3663804, end: 3664222

5' * *3663810 * *3663820 * *3663830 * *3663840 * *3663850 * *3663860 * *3663870 * *3663880 * 3'
- asn - fMet - -fMet - his - ser - -ile - arg - gln - phe - pro - cys - ser - asp - cys - ile - val - asp - leu - ile - leu - his - lys - his - ile - thr - val - tyr - fMet - -
- leu - asp - asn - ser - his - val - val - ile - ala - fMet - thr - -
...

...] NC_000913.gadX p10 6.3 bits p10 2.8 bits

p35 1.5 bits p35 6.5 bits p10 3.1 bits

{ p35-(23)-p10 3663843 Gap 1.4 bits
p35-p10 3663843 total 6.4 bits

{ p35-(22)-p10 3663859 Gap 2.3 bits
p35-p10 3663859 total 7.0 bits

{ p35-(25)-p10 3663862 Gap 4.0 bits
p35-p10 3663862 total 5.6 bits

5' * *3663890 * *3663900 * *3663910 * *3663920 * *3663930 * *3663940 * *3663950 * *3663960 * 3'
- fMet - ile - asp - lys - fMet - ile - asp - lys - fMet - ile - asn - lys - phe - lys - arg - ser - gly - arg - thr - ala - fMet - ile - met - cys - asp - val - leu - arg - ala -
-

p35 1.0 bits p10 5.7 bits ir gadX_gadA+
sd sd-ir 3663940 gadX_gadA+ total 11.4 bits

|-----| p35-p10 3663914 total 4.3 bits {-----| sd-(9)-ir 3663940 Gap 2.3 bits

{-----| p35 5.6 bits |-----| sd-ir 3663940 gadX_gadA+ total 11.4 bits
sd-(15)-ir 3663946 Gap 6.0 bits
sd-ir 3663946 gadX_gadA+ total 9.4 bits

{-----| p35-(22)-p10 3663914 Gap 2.3 bits p10 2.4 bits p35 2.6 bits
{-----| p35-(22)-p10 3663940 Gap 2.3 bits p35-p10 3663940 total 5.6 bits

{-----| p10 4.3 bits {-----| p35-(25)-p10 3663943 Gap 4.0 bits p35-p10 3663943 total 5.9 bits
{-----| ... p35-p10 3663981 total 7.3

5' *3663970 * *3663980 * *3663990 * *3664000 * *3664010 * *3664020 * *3664030 * *3664040 * 3'
- fMet - thr - gly - phe - ile - gln - lys - arg - val - fMet - phe - lys - asn - thr - gly - lys - leu - ile - val - ser - lys - fMet - thr -
- asp - asp - trp - ile - tyr - asn - thr - lys - thr - cys - leu - arg - thr - gln - gly - asn -

[###] orf 11 codons p10 8.4 bits p35 3.5 bits

{-----| ... p35-(24)-p10 3664063 Gap 6.1 p35-p10 3664063 total 6.1

...] p35-(26)-p10 3663981 Gap 3.7 bits

... | p35-p10 36643981 total 7.3 bits

5' att a a a g g t a a t c g c t a c a t t a a t a a a c a t t c a t a t a a c a t a t a c t t a a c a t a t a c a t a t a c a t a t a c a g a t g a a t a g a c a g c c a a t a t a t t a 3'

- leu - lys - val - ile - ala - thr - phe - asn - lys - his - ser - tyr - asn - ile - tyr - leu - ile - asn - thr - met - asn - arg - gln - pro - ile - tyr - tyr -

... *3664050 * *3664060 * *3664070 * *3664080 * *3664090 * *3664100 * *3664110 * *3664120 *

... 5.1 bits 2.2 bits 4.5 bits

... p35-(24)-p10 3664063 Gap 2.4 bits

... p35-p10 3664063 total 6.1 bits

... p35 5.7 bits

... p35-(22)-p10 3664089 Gap 2.3 bits

... p35-p10 3664089 total 5.5 bits

... p35-(24)-p10 3664091 Gap 2.4 bits

... p35-p10 3664091 total 7.7 bits

5' t g c g a t t a a t a a g c a a c c g a a t g c c c a g c t g t t t a a a g g c t g g c a t t c g g t t t a a c a c g t t a t g t t a c a g g t 3'

-fMet - arg - leu - ile - ser - asn - arg - met - pro - ser - cys - phe - phe - lys - gly - trp - ala - phe - gly - phe - tyr - asn - val - met - leu - ser - gly -

- cys - asp -

... 5.6 bits 2.7 bits

... NC_000913.gadA

5' *3664210 * *3664220

5' g t g t t a a a g c t g t 3'

- val - phe - lys - ala -

- cys - leu - lys - leu -

... NC_000913.gadA

... p35-(24)-p10 3664189 Gap 2.4 bits

... p35-p10 3664189 total 5.8 bits